

WHAT IS CLAIMED IS:

1 1. A plasma display panel, comprising:

2 upper and lower substrates that are installed to be spaced apart from each other by a
3 predetermined distance and that contain therebetween a plurality of barrier ribs and discharge spaces
4 that are disposed between adjacent the barrier ribs in a display portion of the plasma display panel;

5 a plurality of sets of dummy ribs disposed on one of the upper and the lower substrates and
6 being disposed outside the display portion of the plasma display panel, wherein one rib in each set
7 of dummy ribs being a reinforcing rib, said reinforcing rib being different in design than non-
8 reinforcing dummy ribs; and

9 a sealant sealing together the upper and lower substrates.

1 2. The plasma display panel of claim 1, wherein the reinforcing rib is formed of connected

2 closed ring holders, each closed ring holder having a cross-section of a predetermined shape.

1 3. The plasma display panel of claim 2, wherein the closed ring holders have a polygonal

2 cross-section.

1 4. The plasma display panel of claim 2, wherein the closed ring holders have a circular

2 cross-section.

1 5. The plasma display panel of claim 1, each set of dummy ribs having three ribs, all in

2 parallel to each other.

1 6. The plasma display panel of claim 1, wherein each set of dummy ribs having two
2 reinforcing ribs, one of which is positioned closest to the display region and the other is positioned
3 farthest from the display region.

1 7. The display of claim 1, said display comprising four sets of dummy ribs, one set on each
2 side of said display region.

1 8. The plasma display panel of claim 1, wherein the dummy rib sets further comprise a
2 connecting rib for connecting neighboring dummy ribs within a set to each other.

1 9. The plasma display panel of claim 1, wherein the reinforcing rib has a zig zag with
2 multiple bending portions.

1 10. A plasma display panel, comprising:

2 upper and lower substrates which are installed to be spaced apart from each other by a
3 predetermined distance and which contain therebetween a plurality of barrier ribs and discharge
4 spaces that are disposed between the barrier ribs in a display portion of the plasma display panel, the
5 display portion being a portion of the plasma display panel where images are ordinarily formed, said
6 upper substrate having a first plurality of electrodes that are orthogonal to a second plurality of

7 electrodes in the lower substrate; and
8 a plurality of sets of dummy ribs disposed on one of the upper and the lower substrates and
9 being disposed outside the display portion of the plasma display panel, wherein one rib in each set
10 of dummy ribs being a reinforcing rib, said reinforcing rib being a series of sections of a hollow,
11 closed structure.

1 11. The plasma display panel of claim 10, said closed structure of said reinforcing rib being
2 a polygon.

1 12. The plasma display panel of claim 10, said plasma display panel and said display region
2 being concentric rectangles, said plasma display panel having four sets of dummy ribs, each set being
3 on separate sides of the display region.

1 13. The plasma display panel of claim 10, ribs within each set of dummy ribs that are not
2 reinforcing ribs being straight, rectangular strips.

1 14. The plasma display panel of claim 10, each rib within each set of dummy ribs being
2 parallel to each other.

1 15. The plasma display panel of claim 10, wherein ribs within each set of dummy ribs being
2 connected by connecting portions.

1 16. A plasma display panel, comprising:

2 upper and lower substrates which are installed to be spaced apart from each other by a
3 predetermined distance and which contain therebetween a plurality of barrier ribs and discharge
4 spaces that are disposed between adjoining barrier ribs in a central display portion of the plasma
5 display panel, the central display portion being a portion of the plasma display panel where images
6 are ordinarily formed, said upper substrate having a first plurality of electrodes that are orthogonal
7 to a second plurality of electrodes in the lower substrate; and

8 a plurality of sets of dummy ribs disposed on one of the upper and the lower substrates and
9 being disposed outside the display portion of the plasma display panel, wherein each set of dummy
10 ribs being designed to withstand sandblasting, each set of dummy ribs causing said upper substrate
11 to be spaced a predetermined distance from the lower substrate.

1 17. The plasma display panel of claim 16, each rib in each set of dummy ribs having a zig
2 zag structure comprising straight portions of the ribs and bent portions of the ribs.

1 18. The plasma display panel of claim 16, each rib in each set of dummy ribs being parallel
2 to each other, each set of dummy ribs having connectors connecting adjoining ribs within each set
3 of dummy ribs, said connectors being orthogonal to said dummy ribs.

1 19. The plasma display panel of claim 16, each set of dummy ribs having one reinforcing

2 rib, said reinforcing rib being a series of closed ring holders placed in a straight line.

1 20. The plasma display panel of claim 19, said reinforcing rib having an open ring holder
2 at each end of the rib.